

Material Safety Data Sheet

Page: 1 of 4

Infosafe No. 3NU45 Issue Date : July 2004 ISSUED by CRPCARE

Product Name : **BANDIT Liquid Herbicide**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name BANDIT Liquid Herbicide
Product Code 0302
Product Use For the control of many broadleaf weeds and annual grasses in cotton.
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address 77 Tingira Street Pinkenba
Queensland 4008 Australia
Emergency Tel. 1800 033 498
Telephone/Telex Number Tel: (07) 3867 9100 Fax: (07) 3867 9110
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 Liquid

Ingredients	Name	CAS	Proportion
	Prometryn	7287-19-6	250 g/L
	Fluometuron	2164-17-2	250 g/L
	Water		30-60 %
	Dispersants and stabilisers		<10%

3. HAZARDS IDENTIFICATION

Irritating to eyes.
Other Information Poisons Schedule 5

4. FIRST AID MEASURES

Inhalation Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
Ingestion Rinse mouth and then drink plenty of water.
If vomiting occurs, give more water to drink to assist dilution.
If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice.
Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
Specific Hazards Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazardous Combustion Products If involved in a fire, the dehydrated components may emit flourine compounds, oxides of sulphur, oxides of nitrogen and oxides of carbon.
Emergency Action in case of Fire If exposed to fire, keep container cool by spraying with water.

Material Safety Data Sheet

Page: 2 of 4

Infosafe No. 3NU45 Issue Date: July 2004 ISSUED by CRPCARE

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Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

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 disposal.

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

7. HANDLING AND STORAGE

Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

Storage Store in the closed, original container in a cool, well ventilated area.
Do not store for prolonged periods in direct sunlight.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

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

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits No exposure standards have been set for this product.

Personal Protective Equipment It is good practice to wear suitable personal protective equipment (PPE).
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.

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

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 White to pink liquid

Odour Characteristic odour

Solubility in Water Disperses in water.

Vapour Pressure 0.165 mPa @ 25°C for prometryn;
0.125 mPa @ 25°C for fluometuron.

Partition co-efficient, n-octanol/water Kow Log P is 3.1 (prometryn); 2.38 (fluometuron)

Flammability Non combustible material.

Other Information pKa is 4.1 (weak base) for prometryn

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation is not possible.

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Inhalation May cause irritation to the respiratory tract if mists or aerosols are inhaled.

Ingestion Low toxicity.
However, swallowing large amounts may cause nausea and vomiting.

Material Safety Data Sheet

Page: 3 of 4

Infosafe No. 3NU45 Issue Date : July 2004 ISSUED by CRPCARE

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Skin	May irritate the skin.
Eye	May irritate the eyes.
Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of fluometuron.
Acute Toxicity - Oral	LD50 (rat) 3832 mg/kg for fluometuron LD50 (rat) >2000 mg/kg for prometryn
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for fluometuron LD50 (rabbit) >2020 mg/kg for prometryn
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.2 mg/l for prometryn
Eye Irritation	Moderate eye irritant.
Skin Irritation	Mild to moderate skin irritant.
Skin Sensitisation	Product is not a skin sensitiser.
Other Information	<p>The Australian Acceptable Daily Intake (ADI) for fluometuron for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2 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).</p> <p>The Australian Acceptable Daily Intake (ADI) for prometryn for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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).</p>

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	Both active ingredients persist for some time in the soil. Fluometuron will biodegrade to loose about 50% of its strength in the soil in 60 - 75 days, depending on soil conditions. Prometryn will biodegrade in the soil in 30 - 90 days, depending on soil conditions.
Acute Toxicity - Fish	LC50 (96 hr) for rainbow trout is 47 mg/l for fluometuron LC50 (96 hr) for rainbow trout is 5.5 mg/l for prometryn
Acute Toxicity - Daphnia	LC50 (48 hr) for daphnia is 23 mg/l for fluometuron. LC50 (48 hr) for daphnia is 13 mg/l for prometryn.
Acute Toxicity - Other Organisms	Not toxic to birds. The following data is for the active ingredient, fluometuron. LC50 (96hr) for mallard ducks is 2974 mg/l The following data is for the active ingredient, prometryn. LC50 (96hr) for mallard ducks is 4640 mg/l Bees: Not toxic to bees. LD50 >99 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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Material Safety Data Sheet

Page: 4 of 4

Infosafe No. 3NU45 Issue Date: July 2004 ISSUED by CRPCARE

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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.
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

Risk Phrase R36 Irritating to eyes.

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

S2 Keep out of reach of children.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell seek medical advice immediately

Poisons Schedule S5

Hazard Category Irritant

Packaging & CAUTION

Labelling KEEP OUT OF REACH OF CHILDREN

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

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...