

BARON[™] 400 WP SELECTIVE HERBICIDE Date of Issue: October 2008

1. \IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: Baron [™] 400 WP Selective Herbicide

Other Names: Oxyfluorfen;

2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl) benzene

Recommended

Use: Selective Herbicide

Supplier: AgNova Technologies Pty Ltd

ABN: 70 097 705 158

Address: Suite 10/857 Doncaster Road

Doncaster East Vic 3109 Australia

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Contact: Managing Director

Emergency Telephone

Number: 1800 033 111 (24 hrs)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE - DANGEROUS GOODS

Hazard Classified as Hazardous according to the criteria of NOHSC

Designation:

Risk Phrases: R36/38 Irritating to eyes and skin

Safety Phrases: None allocated

ADG This product is classified as Class 9 Dangerous Goods under the **Classification:** Australian Code for Transport of Dangerous Goods by Road and

Rail. Marine Pollutant

SUSDP Poison Schedule 5 (S5)

Classification: (Standard for Uniform Scheduling of Drugs and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (w/v):
Oxyfluorfen	42874-03-3	40 %
calcium chloride	10043-52-4	< 10 %
inert ingredients	-	30 – 60 %

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Contact Poisons Information Centre (131126). Do not induce Ingestion:

vomiting unless told to by Poisons Information Centre or a doctor.

Inhalation: Remove to fresh air. Apply artificial respiration if necessary. Get

medical help if breathing difficulty persists.

Skin contact: Remove contaminated clothing and wash skin thoroughly with soap

and water. Obtain medical attention if irritation persists. Wash

clothing before re-use.

Eye contact: Immediately flush eyes with water for 15 minutes. If irritation

persists see a doctor.

First Aid Provide washing facilities in the workplace.

Facilities:

Medical No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. attention:

5. FIRE FIGHTING MEASURES

Extinguishing Carbon dioxide, dry chemical or water spray.

Media:

Hazards from

Combustion **Products:**

Precautions for Fire Fighters:

Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off. Wear self-contained

Combustion generates toxic fumes of the following: hydrogen

breathing apparatus and full protective gear.

chloride, hydrogen fluoride and nitrogen oxides.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with eyes and skin. Do not inhale dust or spray mist. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Environmental Precautions:

Material is highly toxic to aquatic organisms. Do NOT flush to drains or sewers. Do NOT contaminate streams, rivers or water courses.

Methods for Cleaning Up:

Clear area of all unprotected personnel. Wear protective equipment. Sweep up small spills and place in a suitable container for recovery or disposal.

Keep spills and cleaning run-off out of drains or sewers and open bodies of water.

Absorb spill in lime, sand, earth or non-combustible absorbent material. Place material in open top drum, clean up with small amount of detergent and water, absorb and place in drum. Seal drum and bury in an area approved by the local waste disposal authority.

Wipe down protective equipment in detergent solution and dry. Wash overalls, destroy if heavily contaminated.

Empty containers and product should not be burnt.

Shake bag contents into spray tank until the bag is empty. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty bags in a local authority land fill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt.

Observe government regulations.



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7. HANDLING AND STORAGE

Handling: Handling Precautions

Avoid contact with eyes and skin. Do not inhale dust or spray mist. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Other Precautions:

None.

Storage: Store in the closed, original container in a dry, cool, well-ventilated

area out of direct sunlight.

Keep away from food and drink.

Ensure containers are correctly labelled and securely sealed.

Eye-wash and washing facilities must be readily available. For disposing spills have lime, absorbent material and open head drums

on hand.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:

No exposure limits have been established.

Engineering Controls:

Good ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operators.

Personal Protective Equipment:

Avoid contact with eyes and skin. Do not inhale dust. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use.

When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles and a disposable dust face mask covering the mouth and nose. If applying by hand, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. After each days use, wash gloves, goggles and contaminated clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light grey powder

Odour: Musty

Vapour Pressure:Not applicableVapour Density:Not applicableBoiling Point:Not applicableMelting Point:Not available

Solubility: Dispersible in water

Bulk Density: 146 g/mL (loose) and 157 g/mL (packed)

pH: 8.0 – 9.5 (MT 75.2 – 1%)

Flash Point: Not available Flammability Not flammable

(explosive) Limits:

Auto-Ignition Not available

Temperature:

Formulation: Wettable powder

10. STABILITY AND REACTIVITY

Chemical Stable under normal storage conditions.

Stability:

Hazardous Not available

Polymerisation:

Conditions to Avoid temperatures above 200 °C for prolonged periods to prevent

Avoid: slow decomposition.

Incompatible

Materials:

None known.

Hazardous

ous Thermal decomposition may yield the following: Hydrogen chloride,

Decomposition hydrogen fluoride and nitrogen oxides.

Products:



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11. TOXICOLOGICAL INFORMATION

Technical oxyfluorfen

Oral Toxicity: LD₅₀ Oral (ingestion) Rat = > 5000 mg/kg

Dermal Toxicity: LD₅₀ Dermal (skin contact) Rat > 3000 mg/kg

Rabbit > 5000 mg/kg

Inhalation LC₅₀ Aerosol (4 hr inhalation) Rat > 5.4 mg/L

Toxicity:

Skin Irritation: Essentially non-irritating

Eye Irritation: Essentially non-irritating

Sensitisation: No data available

Mutagenicity: No data available

Significant Data with Possible Relevance to Human Health

No data available

12. ECOLOGICAL INFORMATION

Highly toxic to wildlife and fish. DO NOT contaminate ponds, irrigation channels, drains, streams, rivers or waterways with the chemical or used containers.

Technical oxyfluorfen

Fish Toxicity: Acute LC_{50} (Rainbow trout *Oncorhynchus mykiss*) = 0.41 mg/L

Acute LC₅₀ (Channel catfish *Ictalurus punctatus*) = 0.4 mg/L

Acute LC₅₀ (Bluegill *Lepomis macrochirus*) = 0.2 mg/L

Daphnia No data available

Toxicity:

Bird Toxicity: $LD_{50} > 2000 \text{ mg/kg}$

 $LC_{50} > 5000 \text{ ppm}$

Bee Toxicity: No data available

Other: LC₅₀ earthworm (*Eisenia foetida*) > 1000 mg/kg

Environmental Biodegradation under aerobic laboratory conditions is below

Fate, detectable limits (BOD₂₀ or BOD₂₈ is < 2.5%).

Persistence and Biodegradation reached in Closed Bottle Test (OECD Test No.

Degradation: 301D) after 28 days is 1.2%.

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13. DISPOSAL CONSIDERATIONS

1) After Intended Use:

Empty containers and product should not be burnt.

Shake bag contents into spray tank until the bag is empty. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty bags in a local authority land fill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt.

2) After Spill or Accident:

Dispose of sealed containers at an approved local waste disposal site marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product through a reputable waste contractor.

14. TRANSPORT INFORMATION

UN Number: 3077

Proper Shipping ENVIRONMENTALLY HAZARDOUS SOLID, N.O.S. (Contains

Name: 40% oxyfluorfen)

Class and

Subsidiary Risk: Not applicable

Packing Group: III

EPG: HB76 Guide 47

Hazchem Code: 2X

15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary

Chemicals Act 1988.

APVMA Product Number: 59148

SUSDP Poison Schedule 5

(Ag North Agriculture)

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16. OTHER INFORMATION

Trademark Baron[™] - Trademark applied for.

Information:

Abbreviations APVMA – Australian Pesticides and Veterinary Medicines Authority

and NOHSC – National Occupational Health and Safety Commission

Acronyms: SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons

Preparation Replaces January 2007 version.

Information:

Data Sources: Manufacturer product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF MSDS