

1. IDENTIFICATION

Product Identifier: **Baron® 400 WG Selective Herbicide**

Other Means of Identification: Oxyfluorfen;
2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl) benzene

Recommended Use of the Chemical and Restrictions on Use: **Selective Herbicide**

Details of Manufacturer or Importer: AgNova Technologies Pty Ltd
Suite 3/935 Station Street
Box Hill North Vic 3129 Australia
(03) 9899 8100
www.agnova.com.au

Emergency Phone Number: 1800 033 111 (24 hrs)
Poisons Information Centre 13 11 26

2. HAZARD(S) IDENTIFICATION

This product is a mixture containing one ingredient classified as hazardous according to Safe Work Australia (HCIS).



Pictogram: Exclamation Mark

GHS Hazard Class and Category:

Eye Irritation – Category 2: 'Warning'

Hazard Statement: H319 Causes serious eye irritation.

Precautionary Statements:**Prevention**

P264 Wash hands thoroughly after handling.

P280 Wear eye protection/face protection.



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Response

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.

Storage

No additional information.

Disposal

No additional information.

ADG

Classification: Not classified as Dangerous Goods for land transport under the Australian Code for Transport of Dangerous Goods by Road and Rail special provision AU01 – refer section 14.

SUSMP

Classification: Not scheduled.
(Standard for Uniform Scheduling of Medicines and Poisons).

3. COMPOSITION AND INFORMATION ON INGREDIENTS

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

*Classified as hazardous chemical

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 Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

Ingestion: Contact Poisons Information Centre (13 11 26). Do not induce 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



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	persists see a doctor.
First Aid Facilities:	Provide washing facilities in the workplace.
Symptoms Caused by Exposure:	No data available.
Medical Attention and Special Treatment:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical or water spray.
Specific Hazards Arising from the Chemical:	Combustion generates toxic fumes of the following: hydrogen chloride, hydrogen fluoride and nitrogen oxides.
Special Protective Equipment and Precautions for Fire Fighters:	Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off. Wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	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 and	Clear area of all unprotected personnel. Wear protective



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Materials for Containment and Cleaning Up:

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.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

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.

Conditions for Safe Storage, including any Incompatibilities:

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 AND PERSONAL PROTECTION

Exposure Standards:

No exposure limits have been established.

Biological Monitoring:

No data available.

Control

No data available.

Banding:

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

Individual Protection Measures, for example, Personal Protective Equipment (PPE): 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white, buff, free flowing granules
Odour: Musty
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Boiling Point: Not applicable
Melting Point: Not available
Degree of Dispersion: 60 to 105%
Suspensibility: 60 to 105%
Wettability: <60 seconds
Wet sieve (75 µm): max. 2% retained
Persistent foam: max. 60 mL after 1 min.
pH: 8.0 – 9.5 (MT 75.2 – 1%)
Flash Point: Not available
Flammability (explosive) Limits: Not flammable
Auto-Ignition Temperature: Not available
Formulation: Water dispersible granule

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous: No data available.



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Reactions:

Conditions to Avoid: Avoid temperatures above 200°C for prolonged periods to prevent slow decomposition.

Incompatible Materials: None known.

Hazardous Decomposition Products: Thermal decomposition may yield the following: Hydrogen chloride, hydrogen fluoride and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Technical oxyfluorfen

Acute Toxicity:

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

Dermal Toxicity: LD₅₀ Dermal (skin contact) Rat >3000 mg/kg
Rabbit >5000 mg/kg

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

Skin Corrosion/Irritation: Essentially non-irritating

Serious Eye Damage/Irritation: Essentially non-irritating

Respiratory or Skin Sensitisation: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (STOT) – single exposure: No data available



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Specific Target No data available
Organ Toxicity (STOT) – repeated exposure:

Aspiration Hazard: 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

Ecotoxicity:

Fish Toxicity: Acute LC₅₀ (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 Toxicity: No data available

Bird Toxicity: LD₅₀ >2000 mg/kg
LC₅₀ >5000 ppm

Bee Toxicity: No data available

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

Persistence and Degradability: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD₂₀ or BOD₂₈ is <2.5%).
Biodegradation reached in Closed Bottle Test (OECD Test No. 301D) after 28 days is 1.2%

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

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.



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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

Transport Classification:	Road and Rail Transport: Not dangerous goods under the ADG7 when being transported in IBCs or other receptacles <500 L (kg), (Special Provision AU01). Marine and Air: Classified as Dangerous Goods for transport by sea and air according to the criteria of the UN Model Regulations for Transport of Dangerous Goods 13 th Edition.
UN Number:	3077
Proper Shipping Name or Technical Name:	ENVIRONMENTALLY HAZARDOUS SOLID, N.O.S. (Contains 40% oxyfluorfen)
Transport Hazard Class:	9
Packing Group:	III
Environmental Hazards for Transport Purposes:	Marine Pollutant
Special Precautions for User:	Not applicable
Additional Information:	HB76 Guide 47
Hazchem Code:	2X



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15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary Chemicals Act 1988
APVMA Product Number: 64988

SUSMP Not scheduled

16. OTHER INFORMATION

Trademark Information: Baron® is a registered trademark of AgNova Technologies Pty Ltd

Abbreviations and Acronyms: ADG7 – Australian Dangerous Goods Code for Road and Rail Transport, 7th Edition
APVMA – Australian Pesticides and Veterinary Medicines Authority
GHS – Globally Harmonized System of Classification and Labelling of Chemicals
HCIS – Hazardous Chemical Information System
SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons

Date of Preparation or Revision: May 2018

Reason for Revision: Minor changes were made to sections 1 and 9

Data Sources: Manufacturer product information and published data

This SDS 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 SDS 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 SDS