


## Section 1: Identification

Product name:	BARON <sup>®</sup> WG
Other names:	Water dispersible granule containing 400 g/kg oxyfluorfen
Recommended use:	Herbicide
Manufacturer/Importer details:	AgNova Technologies NZ Ltd PO Box 301488, Albany Auckland 0752 Phone: 0800 500 599
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poisons Centre:	0800 POISON (0800 764 766)

## Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR000542
Hazardous classification:	Eye irritation Category 2, Specific target organ toxicity (repeated) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms.
Pictograms:	
Signal word:	<b>WARNING</b>
Hazard statements:	H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long-lasting effects. Hazardous to soil organisms.
Prevention statements:	P103 Read label before use. P260 Do not breathe spray mist. P264 Wash hands, arms and face thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye/face protection.
Response statements:	P314 Get medical advice/attention 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.

Storage statements:	P314 Get medical advice if you feel unwell
Disposal statement:	P391 Collect spill.
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Additional Label Requirements:	P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details.
	Do not apply directly into or onto water. Take all reasonable steps to ensure that Baron WG does not cause any significant adverse effects to the environment beyond the application area.

### Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion %w/w</i>
Oxyfluorfen	42874-03-3	40
Kaolinite	1318-74-7	>30 -<60
Sodium diisopropyl-naphthalene sulphonate	1322-93-6	5 - <25
Other ingredients	-	To balance

### Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.
Skin contact:	Wash area with plenty of water. Wash contaminated clothing before reuse.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTRE or doctor if irritation persists.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

### Section 5: Fire-fighting measures

Flammability:	Non-flammable.
Appropriate extinguishing media:	Extinguish fire with dry powder (ABC powder), foam, carbon dioxide or water spray.
Hazardous decomposition products:	Irritant and toxic gases/fumes may be generated.
Special protective equipment and precautions for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent run-off from contaminating drains, sewers or waterways. Inform appropriate authorities immediately if product or run-off enters waterways.

HAZCHEM code:	2Z								
<b>Section 6: Accidental release measures</b>									
Personal precautions:	Wear protective equipment, chemical resistant coveralls, boots, gloves, eye protection. Do not touch or walk through spilled material. Stop leak when safe to do so. Exclude all bystanders from the vicinity.								
Environmental precautions:	Prevent product entering drains or waterways by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters sewers or waterways. Prevent chemical contaminating soil.								
Procedure for clean up:	Contain and recover granules into a suitable labelled container for disposal. Wash contaminated area with water, absorb and put in container for disposal. Dispose of contaminated waste at an approved facility.								
<b>Section 7: Handling and storage</b>									
Safe handling:	Read label before use. Wear personal protective equipment. Do not eat, drink or smoke while handling or using.								
Safe storage:	To be used only in compliance with HSNO Controls. Keep out of reach of children. Keep container tightly closed when not in use. Store in a well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals.								
<b>Section 8: Exposure controls/personal protection</b>									
Occupational exposure limits:	<table border="1"> <thead> <tr> <th><i>Ingredient</i></th> <th><i>CAS No.</i></th> <th><i>WES-TWA</i></th> <th><i>WES-STEL</i></th> </tr> </thead> <tbody> <tr> <td>Kaolin</td> <td>1332-58-7</td> <td>10 mg/m<sup>3</sup>  2 mg/m<sup>3</sup> (respirable dust)</td> <td></td> </tr> </tbody> </table>	<i>Ingredient</i>	<i>CAS No.</i>	<i>WES-TWA</i>	<i>WES-STEL</i>	Kaolin	1332-58-7	10 mg/m <sup>3</sup>  2 mg/m <sup>3</sup> (respirable dust)	
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Biological limit value:	None set as of WorkSafe's 14 <sup>th</sup> edition of WES and BEI values, published November 2023.								
Engineering controls:	Control process conditions to avoid contact. Use only in well-ventilated areas or outdoors. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.								
Respiratory protection:	No specific requirements but avoid breathing any dust.								
Hand protection:	Elbow length, chemical resistant gloves, e.g. nitrile.								
Eye protection:	Safety glasses with side shield, goggles, or face shield.								
Skin protection:	Overalls and chemical resistant boots/footwear. Disposable overalls recommended.								
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before rest breaks, meals and after work. Wash protective clothing daily after work.								
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.								

**Section 9: Physical and chemical properties**

(a)	Appearance:	Off-white granules.
(b)	Odour:	Musty.
(c)	Odour threshold:	Not available.
(d)	pH:	7.0 – 9.5 (1% aqueous)
(e)	Melting point/freezing point:	Not applicable.
(f)	Initial boiling point and boiling range:	Not determined
(g)	Flash point:	Not determined
(h)	Flammability (solid, gas):	Not applicable.
(i)	Upper/lower flammability or explosive limits:	Not available.
(j)	Vapour pressure:	Not determined
(k)	Vapour density:	Not available.
(l)	Relative density:	0.5 – 0.6 g/cm <sup>3</sup> (bulk density)
(m)	Solubility:	Not available.
(n)	Partition coefficient: n-octanol/water:	Not available.
(o)	Auto-ignition temperature:	Not determined.
(p)	Decomposition temperature:	Not available.
(q)	Kinematic viscosity:	Not available.
(r)	Particle characteristics	Not applicable.

**Section 10: Stability and reactivity**

Stability of the substance:	Product is unlikely to react or decompose under normal conditions of storage and use. If you have any doubts, contact the supplier for advice on shelf-life properties.
Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Strong acids, strong bases, oxidising agents.
Hazardous decomposition products:	In a fire, fumes/gases of unknown compounds may be emitted.

**Section 11: Toxicological information**

	Toxicity classifications determined by assessment of the components in the formulated mixture.
(a) Acute toxicity:	Not classified for acute toxicity.
(b) Aspiration hazard:	Not classified.
(c) Respiratory irritation:	Not classified.
(d) Skin corrosion / irritation:	Not classified.

(e) Serious eye damage / irritation:	Causes serious eye irritation. Symptoms may include stinging, tearing, swelling and blurred vision.
(f) Respiratory or skin sensitisation:	Not classified.
(g) Germ cell mutagenicity:	Not classified.
(h) Carcinogenicity:	Not classified.
(i) Reproductive toxicity:	Not classified.
(j) Specific organ toxicity:	May cause damage to target organs or systems through prolonged or repeated exposure.
(k) Narcotic effects:	No information.
(l) Other adverse effects:	Not available.
(m) Toxicological information for product:	Not available.

**Section 12: Ecological information**

	Ecotoxicological classifications determined by assessment of the active ingredient.
(a) Aquatic ecotoxicity:	Very toxic to aquatic life and with long lasting effects.
(b) Soil ecotoxicity:	Classified as hazardous to soil organisms.
(c) Terrestrial vertebrate ecotoxicity:	Not classified.
(d) Terrestrial invertebrate ecotoxicity:	Not classified.
(e) Persistence and degradability:	Not rapidly biodegradable.
(f) Potential to be bioaccumulative:	No information.
(g) Mobility in soil:	No data available for product.
(h) Ecotoxicological information for product:	Not available

**Section 13: Disposal considerations**

Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service. Do not allow material to contaminate ground water system or surface water.
Container disposal:	Empty packaging may contain residues. If containers are suitable be triple rinse with water then recycle through Agrecovery if possible. Otherwise crush and bury in an approved landfill. Do not use packaging for any other purpose. Avoid contamination of any water supply or stream with product or empty container.

**Section 14: Transport information**

UN number:	3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OXYFLUORFEN 40%)
UN class:	9

Packing group:	III																								
HAZCHEM:	2Z																								
Marine pollutant:	YES																								
Special precautions:	Limited quantities, 5 kg																								
<b>Section 15: Regulatory information</b>																									
HSNO:	Approved substance under the HSNO Act 1996.																								
Substance approval number:	HSR000542																								
Tolerable exposure limit / environmental exposure limit:	None set.																								
HSNO controls:	See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>																								
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Additional information:	Refer to WorkSafe for additional information on controls in the workplace; <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .																								
ACVM:	Required to be registered under the Agricultural Compounds Veterinary Medicines Act 1997.																								
Registration number:	P9186																								
Conditions of registration:	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>																								
<b>Section 16: Other information</b>																									
Date of issue:	10/06/2024																								
Reason for reissue:	New SDS																								
Replaces:	Not applicable																								
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances databases. Workplace Exposure Standards and Biological Exposure Indices																								
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group Bw: Bodyweight.																								



	<p>HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit</p>
Personal Protection Standards:	<p>The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: <b>AS/NZS 1715</b>, Protective Gloves: <b>AS 2161</b>, Occupational Protective Clothing: <b>AS/NZS 4501</b>, Industrial Eye Protection: <b>AS1336</b> and <b>AS/NZS 1337</b>, Occupational Protective Footwear: <b>AS/NZS2210</b></p>

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

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