

Infosafe No™ 3NV5C Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name **GOAL ADVANCED**

Section 1 - Identification

Product Identifier	GOAL ADVANCED
Product Code	00255
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	For pre and post emergence residual broadleaf weed control in apples, stonefruit, kiwifruit, grapevines, onions, vegetable brassicas and forest nurseries.
Other Information	This SDS 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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H373 May cause damage to kidneys and liver through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H421 Very toxic to the soil environment
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment.
Precautionary Statement – Response	P314 Get medical advice/attention if you feel unwell. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization Ingredients	Liquid		
	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Oxyfluorfen	42874-03-3	480 g/L

Infosafe No™ 3NV5C Issue Date : October 2024 ISSUED by NUFARMNZ

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Ingredients	Name	CAS	Proportion
	Non- hazardous ingredients		Upto 100%

Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Alcohol resistant foam, carbon dioxide, dry powder or water fog.
Hazards from Combustion Products	Thermal decomposition or combustion products may contain unidentified toxic and or irritating compounds. Combustion products may include and are not limited to nitrogen oxide, hydrogen fluoride, hydrogen chloride, carbon monoxide and carbon dioxide.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not allow washings to reach sewage or effluent systems.
Specific hazards arising from the chemical	This material will not burn until the water has evaporated. Residue can burn. If exposed to fire from another source and water is evaporated, exposure to high temperatures may cause toxic fumes.
Hazchem Code	2Z
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Avoid discharge to the aquatic environment.

Section 7 - Handling and Storage

Infosafe No™ 3NV5C	Issue Date :October 2024	ISSUED by NUFARMNZ
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Precautions for Safe Handling	<p>The person mixing or applying Goal Advanced must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.</p> <p>Avoid skin and eye contact and inhalation of spray mist.</p> <p>This product must not be applied onto or into water.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area.</p> <p>CERTIFIED HANDLER: Is not required.</p> <p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use, as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of Goal Advanced is used within 24 hours. Records must be kept for a minimum of 3 years from application date.</p>
Conditions for safe storage, including any incompatibilities	<p>Keep out of reach of children.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.</p> <p>Stores containing 100L of Goal Advanced are subject to signage, and more than 100L require emergency response plans.</p>
Other Information	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds:</p> <p>When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure standards have been set for this product.
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, washable hat, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Yellow to orange liquid.
Odour	Characteristic odour.
Decomposition Temperature	Information is not available.
Melting Point	Information is not available.
Boiling Point	Information is not available.
Solubility in Water	Suspends in water.
pH	Typically 7.66 (1% solution)
Vapour Pressure	0.0267 mPa (oxyfluorfen, 25°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.

Infosafe No™ 3NV5C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Partition Coefficient:	Information is not available.
n-octanol/water	
Density	1.18 g/ml
Flash Point	Information is not available.
Flammability	Not Combustible.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	Suspension Concentrate.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Generation of gas during decomposition can cause pressure in closed systems rapidly.
Incompatible Materials	Avoid contact with strong oxidizers.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide, Hydrogen Chloride, Hydrogen fluoride, nitrogen oxides.
Hazardous Polymerization	Hazardous polymerisation is not possible.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >0.39 mg/l for product.
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for product
Ingestion	The concentrate is of very low toxicity if swallowed.
Skin Corrosion/Irritation	Not corrosive or irritating to skin.
Serious Eye Damage/Irritation	Non irritating to eyes.
Skin Sensitisation	Product is not a skin sensitiser.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to kidneys and liver through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for oxyfluorfen for a human is 0.025 mg/kg/day, set for the public for daily, lifetime exposure. This is

Infosafe No™ 3NV5C	Issue Date :October 2024	ISSUED by NUFARMNZ
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based on the NOEL of 2.5 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: Aust Govt Dept. of APVMA, 'ADI List', Edition 2/2024).

Section 12 - Ecological Information

Persistence and Degradability	Information is not available.
Mobility	Not considered mobile.
Bioaccumulative Potential	Information is not available.
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	LC50 (96hr)for Onchorhynchus mykiss (Rainbow Trout)= >115 mg/l for formulated product.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 79 mg/l for product.
Acute Toxicity - Algae	EC50 (72 hr) for Pseudokirchneriella subcapitata = 0.00043 mg/l for product.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 >2000 mg/kg Bees: Not toxic to bees. LD50 (contact) >238µg/bee, (oral) >238µg/bee for product. Earthworms: LC50 (14d) >1,000mg/kg

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved treatment facility.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (contains oxyfluorfen)
Hazard Class	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Marine pollutant
IMDG EMS	F-A, S-F
Other Information	Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

Infosafe No™ 3NV5C	Issue Date : October 2024	ISSUED by NUFARMNZ
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National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7836 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR007979 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS September 2020.

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
 24Hr Tollfree Emergency No: 0800 651 911
 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Highlighted Various changes and updates made to the document to comply with GHS7.
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