

Infosafe No™ 3NV5C	Issue Date : September 2020	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

 Product Name **GOAL ADVANCED**

1. Identification

GHS Product Identifier	GOAL ADVANCED
Product Code	00255
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	For pre and post emergence residual broadleaf weed control in apples, stonefruit, kiwifruit, grapevines, 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.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
Signal Word (s)	WARNING
Hazard Statement (s)	H372 Causes damage to kidneys and liver through prolonged or repeated exposure. H400 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, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P260 Do not breathe dust or spary mist. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.
Precautionary statement – Response	P314 Get medical attention if you feel unwell.
Precautionary statement – Storage	P391 Collect spillage. P405 Store locked up.
Other Information	6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant

3. Composition/information on ingredients

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

Infosafe No™ 3NV5C Issue Date : September 2020 ISSUED by NUFARMNZ

Product Name **GOAL ADVANCED**

Ingredients	Name	CAS	Proportion
	Non- hazardous ingredients		Upto 100%

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 contact	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.

5. Fire-fighting 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 Temp.	Data not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & 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.

7. Handling and storage

Infosafe No™ 3NV5C	Issue Date : September 2020	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **GOAL ADVANCED**

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'. For more information refer to Hazardous Substances (Hazardous Property Controls) Notice 2017.</p> <p>Do not breathe spray, mists.</p> <p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</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 100kg of GOAL ADVANCED are subject to signage, and more than 100kg 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>

8. Exposure controls/personal protection

Occupational exposure limit values	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>

9. Physical and chemical properties

Form	Liquid
Appearance	Yellow to orange liquid.
Odour	Characterstic odour.
Decomposition Temperature	Data not available.
Melting Point	Not applicable.
Boiling Point	Data 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)	Data not available
Partition Coefficient: n-octanol/water	Data not available.
Density	1.18 g/ml
Flash Point	Data not available.
Flammability	Not Combustible.
Auto-Ignition Temperature	Not applicable
Explosion Properties	Not explosive

Infosafe No™ 3NV5C	Issue Date : September 2020	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

 Product Name **GOAL ADVANCED**

Oxidising Properties	Data not available.
Kinematic Viscosity	Data not available.
Relative density	Not applicable.
Other Information	Suspension Concentrate.

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.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for product
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >0.39 mg/l for product.
Ingestion	The concentrate is of very low toxicity if swallowed.
Skin	Non irritating to skin
Eye	Non irritating to eyes.
Respiratory sensitisation	Information not available.
Skin Sensitisation	Product is not a skin sensitiser.
Germ cell mutagenicity	Information not available.
Carcinogenicity	Information not available.
Reproductive Toxicity	Information not available.
STOT-repeated exposure	May cause damage to kidneys and liver through prolonged or repeated exposure.
Aspiration Hazard	Information not available.
Mutagenicity	Information not available.
Skin corrosion/irritation	Not a skin corrosive.
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 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 Health, Office of Chemical Safety, 'ADI List', March 2020).

12. Ecological information

Persistence and degradability	Data not available.
--------------------------------------	---------------------

Infosafe No™ 3NV5C	Issue Date : September 2020	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

 Product Name **GOAL ADVANCED**

Mobility	Not considered mobile.
Bioaccumulative Potential	Data 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

13. Disposal considerations

Product Disposal	To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product entering natural water sources.
Container Disposal	Ensure container is completely empty. Crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an appropriate landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (contains oxyfluorfen, 48%)
Transport hazard class(es)	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.

15. Regulatory information

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.
---	---

Infosafe No™ 3NV5C	Issue Date : September 2020	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **GOAL ADVANCED**

Packaging & Labelling WARNING
KEEP OUT OF REACH OF CHILDREN
Read Label before use.

16. Other 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 N/A. First Issue.

...End Of MSDS...

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.