

Infosafe No™ 3NU9A Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name **ASSOCIATE® 600 WDG**

Section 1 - Identification

Product Identifier	ASSOCIATE® 600 WDG
Product Code	00074
Product Type	Selective 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 the control of gorse, broom, blackberry and other scrub and broadleaf weeds in forest site preparation, waste areas and pasture.
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	Eye irritation 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)	H319 Causes serious eye irritation. 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 carefully and follow all instructions.
Pictogram (s)	Exclamation mark, Environment



Precautionary Statement – Prevention	P264 Wash hands and face thoroughly after handling. P273 Avoid release to the environment.
Precautionary Statement – 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. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Kaolin clay	1332-58-7	10-30 %

Infosafe No™ 3NU9A Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name **ASSOCIATE® 600 WDG**

Ingredients	Name	CAS	Proportion
	Other ingredients (non-hazardous)		Balance
	Metsulfuron-methyl	74223-64-6	600g/kg

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	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Non-combustible. If involved in a major fire, could evolve oxides of carbon, hydrogen, nitrogen or sulphur.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.
Hazchem Code	2X
Decomposition Temperature	Information is not available.
Other Information	Contain fire water. 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. Sweep up solids without generating dust (use water to dampen). If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Infosafe No™ 3NU9A	Issue Date :October 2024	ISSUED by NUFARMNZ
Product Name ASSOCIATE® 600 WDG		

Section 7 - Handling and Storage

Precautions for Safe Handling	<p>The person mixing or applying ASSOCIATE 600 WDG 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.</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 when using 3kg or more of ASSOCIATE 600 WDG 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>
Other Information	<p>Stores containing 100kg of ASSOCIATE 600 WDG are subject to signage, and more than 100kg require emergency response plans.</p> <p>Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been washed with chlorine bleach solution as directed on the label.</p> <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 limits (WES, TEL or EEL's) have been specifically assigned 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 waterproof gloves, safety goggles, 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	Solid
Appearance	Off-white to tan granules.
Odour	Information is not available.
Decomposition Temperature	Information is not available.
Melting Point	162°C for active ingredient metsulfuron-methyl.
Solubility in Water	Disperses in water.
pH	4.2 (1%w/w)

Infosafe No™ 3NU9A	Issue Date : October 2024	ISSUED by NUFARMNZ
--------------------	---------------------------	--------------------

Product Name **ASSOCIATE® 600 WDG**

Vapour Pressure	3.3 x 10 ⁻⁷ mPa (25°C) 162°C for active ingredient metsulfuron-methyl.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Volatile Component	Non volatile
Partition Coefficient: n-octanol/water	Kow Log P is -1.87 (pH7, 20°C) for active ingredient metsulfuron-methyl.
Density	1.47
Flash Point	Information is not available.
Flammability	Non combustible material.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	pKa is 3.8 (20°C) for active ingredient metsulfuron-methyl. (WG) Water Dispersible Granule

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.	Hydrolyses at pH <7.
Conditions to Avoid	Direct sources of heat	
Possibility of Hazardous Reactions	Keep away from strong acids, bases and oxidising materials.	
Hazardous Polymerization	Hazardous polymerisation will not occur.	
Other Information	Not a fire and explosion hazard. Like most organic powders, or crystals under severe dusting conditions this material may form explosive mixtures in air.	

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for for active ingredient metsulfuron-methyl.
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5 mg/l for for active ingredient metsulfuron-methyl.
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for for active ingredient metsulfuron-methyl.
Skin Corrosion/Irritation	Not a skin irritant (rabbits) for active ingredient metsulfuron-methyl.
Serious Eye Damage/Irritation	Causes serious eye irritation.
Skin Sensitisation	Not a skin sensitiser (guinea pigs) for active ingredient metsulfuron-methyl.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.

Infosafe No™ 3NU9A	Issue Date : October 2024	ISSUED by NUFARMNZ
Product Name ASSOCIATE® 600 WDG		

STOT - Repeated Exposure	Information is not available.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for metsulfuron-methyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 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 1/2024).

Section 12 - Ecological Information

Persistence and Degradability	Half life (DT50) in soil for active ingredient metsulfuron-methyl is typically 52 days.
Mobility	Active ingredient metsulfuron-methyl is relatively mobile in most soils.
Bioaccumulative Potential	Active ingredient metsulfuron-methyl is not bioaccumulative.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift should be avoided, read the label for more information. Do NOT apply, drain or flush equipment on or near desirable trees or other plants, or on an area where their roots extend, or in locations where the chemical may be washed or moved into contact with their roots.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout and bluegill sunfish is >150 mg/l for active ingredient metsulfuron-methyl
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is >150 mg/l for active ingredient metsulfuron-methyl..
Acute Toxicity - Algae	EC50 (72h) Green algae 0.045mg/L for active ingredient metsulfuron-methyl.
Acute Toxicity - Other Organisms	Birds: LD50 mallard duck >2,510mg/kg for active ingredient metsulfuron-methyl. Bees: Non-toxic to bees; LD50 (oral) >44.3µg/bee; (contact) >50µg/bee for active ingredient metsulfuron-methyl.

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
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	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (metsulfuron-methyl)
Hazard Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 3kg of ASSOCIATE 600 WDG on a passenger service vehicle.

Infosafe No™ 3NU9A	Issue Date : October 2024	ISSUED by NUFARMNZ
--------------------	---------------------------	--------------------

Product Name **ASSOCIATE® 600 WDG**

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

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P5957 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000242 See www.epa.govt.nz for approval controls.
Packaging and Labelling	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	November 2021.
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. ...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.