

ASSOCIATE® 600 WDG

Infosafe No.: 3NU9A
ISSUED Date : 12/02/2026
ISSUED by: Nufarm NZ

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

Name	CAS	Proportion
Other ingredients (non-hazardous)		Balance
Kaolin clay	1332-58-7	10-30 %
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

Do not allow washings to reach sewage or effluent systems.

Keep up wind.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Hazchem Code

2Z

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

Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.

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.

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.

Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling

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.

Avoid skin and eye contact and inhalation of spray mist.

This product must not be applied onto or into water.

BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

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.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Stores containing 100kg of ASSOCIATE 600 WDG are subject to signage, and more than 100kg require emergency response plans.

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.

Other Information

Always read the label and any attached leaflet before use.

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.

Aggregate Storage Volume Thresholds:

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.

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

cotton overalls buttoned to the neck and wrist,

safety goggles,

When opening the container, preparing spray and using the prepared spray wear

waterproof gloves,

and boots.

Hygiene Measures

Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
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)	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

Hydrolyses at pH <7.

Stable under normal conditions of handling and storage.

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.

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

2Z

Packaging Method

-

Packing Group

III

EPG Number

-

ANZ-ERG Guide 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.

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

SDS Revised: February 2026

Supersedes: October 2024

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

The Hazchem code has been updated from 2X to 2Z to ensure full compliance with current transportation regulations.

END OF SDS

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