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Infosafe No™ 3NU9A Issue Date : November 2021 ISSUED by NUFARMNZ

Product Name ASSOCIATE® 600 WDG

#### 1. Identification

**GHS Product** 

ASSOCIATE® 600 WDG

**Identifier** 

00074 **Product Code** 

**Product Type** Selective herbicide

Company Name Nufarm NZ

6 Manu Street, Otahuhu Address

Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

**Emergency phone** 

0800 651 911

number

E-mail Address Info@nz.nufarm.com

the chemical and restrictions on use

Recommended use of 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.

#### 2. Hazard Identification

GHS classification of DANGEROUS GOODS.

the

substance/mixture

**Other Information** 6.3B skin irritant, 6.4A eye irritant, 9.1A aquatic toxicant, 9.2A soil

> toxicant, TOXICITY

Harmful - may cause mild skin and eye irritation.

ECOTOXIC

Very toxic to aquatic organisms.

Selective herbicide - very toxic to some plant species.

#### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	
	Kaolin clay	1332-58-7	10-30 %	
	Other ingredients (non-hazardous)		Balance	
	Metsulfuron-methyl	74223-64-6	600g/kg	

#### 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.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Immediately flush body and clothes with large amounts of water. Remove Skin

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eye contact

necessary.

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Remove contact lenses, if present and easy to do.

Seek medical assistance even if there are no immediate symptoms.

Facilities storing or utilizing this material should be equipped with an First Aid Facilities

eyewash facility and safety shower.

Treat symptomatically. **Advice to Doctor** 

#### 5. Fire-fighting 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.

Non-combustible. Hazards from

Combustion

If involved in a major fire, could evolve oxides of carbon, hydrogen,

nitrogen or sulphur. **Products** 

**Special Protective Equipment for fire**  Full protective clothing and self-contained breathing apparatus.

fighters **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** 

Other Information Contain fire water.

> 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. 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.

### 7. Handling and storage

**Precautions for Safe** Handling

Avoid generating dusts while handling the product and mixing.

Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial

contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more is applied within 24 hours.

Spray drift hazard. Apply this product carefully. Spray drift may BEWARE:

cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatibilities Keep out of reach of children.

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.

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

Other Information

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.

Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate

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quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

#### 8. Exposure controls/personal protection

Occupational exposure limit values

No exposure limits (WES, TEL or EEL's) have been specifically assigned for

t values 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 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.

#### 9. Physical and chemical properties

Form Solid

Appearance Off-white to tan granules

Melting Point 158°C (metsulfuron-methyl)

Solubility in Water Disperses in water.

**pH** 4.2 (1%w/w)

Vapour Pressure 3.3 x 10-7 mPa (25°C, metsulfuron methyl)

Volatile Component Non volatile

**Partition Coefficient:** 

Kow Log P is 0.0018 (pH7, 25°C, metsulfuron methyl)

n-octanol/water

Density 1.47

Flammability Non combustible material.

Other Information pKa is 3.8 (20°C, metsulfuron methyl) (WG) Water Dispersible Granule

### 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

Keep away from strong acids, bases and oxidising materials.

hazardous reactions

Hazardous polymerisation will not occur.

Polymerization

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.

#### 11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for metsulfuron-methyl

Acute Toxicity - LD50 (rabbit) >2000 mg/kg for metsulfuron-methyl

Dermal

Acute Toxicity - LC50 (rat) (4hr) >5 mg/l for metsulfuron-methyl

Inhalation

cente toxicity - 1000 (100) (411) / 3 mg/1 101 metsullulon methyl

Ingestion Low toxicity.

However, swallowing large amounts of concentrate may cause nausea and

vomiting.

Inhalation
Not a likely route of exposure when handling the concentrate.

May cause irritation to mucous membranes.

Inhalation of product may aggravate existing chronic respiratory problems such

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as asthma, emphysema or bronchitis.

Skin May irritate the skin.

Skin contact may aggravate existing skin disease. The concentrate may cause irritation of the eyes.

Skin Sensitisation Product is not a skin sensitiser.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

Serious eye damage/irritation

Eve

Mild skin irritant.

Moderate eye irritant.

corrosion/irritation
Other Information

Skin Mild skin irritant

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 Health, Office of Chemical Safety, 'ADI List', December 2014).

No oncogenic effects observed in 18-month mouse and 2 year rat feeding studies. Slightly decreased parental body weight at  $5,000\,\mathrm{ppm}$ . No effect on rat reproduction or lactation at any dose tested (highest dose tested Ovary Cell assay, or DNA rat liver repair assay; positive in the in vitro Chinese Hamster Cell cytogenetic assay but negative in the in vitro rat bone marrow cytogenetic assay. Not teratogenic or embryo-fetal toxic by gavage in rats (highest dose tested  $1,000\,\mathrm{mg/kg}$ ) or by gavage in rabbits (highest dose tested  $700\,\mathrm{mg/kg}$ ).

#### 12. Ecological information

Persistence and degradability

Half life in soil is typically 52 days. Metsulfuron-methyl is not rapidly degradable.

Mobility

 ${\tt Metsulfuron-methyl\ is\ relatively\ mobile\ in\ mosts\ soils.}$ 

Bioaccumulative

**Potential** 

Metsulfuron-methyl is not bioaccumulative. log Kow = 0.014

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

LC50 (96hr) for rainbow trout and bluegill sunfish is >150 mg/l for

metsulfuron-methyl

**Acute Toxicity -**

EC50 (48hr) for daphnia is >150 mg/l for metsulfuron-methyl.

Daphnia

Acute Toxicity - EC50 (96h) Lemna minor Duckweed 0.4µg/L for metsulfuron-methyl

Algae EC50 (72h) Green algae 0.45mg/L for metsulfuron-methyl Chronic NOEC Lemna Gibba 0.16µg/L for metsulfuron-methyl

**Acute Toxicity - Other Organisms** 

Birds: Not toxic to birds;

Oral LC50 Mallard duck >2,510mg/kg metsulfuron-methyl

Dietary LC50 (8d) Bobwhite quail & Mallard Duck >5,620mg/kg for

metsulfuron-methyl

Bees: Non-toxic to bees;

LD50 (oral) >44.3µg/bee; (contact) >50µg/bee for metsulfuron-methyl

Rice: EC25 (16d) 0.00015mg/hectare

### 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.

#### 14. Transport information

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It is good practice not to transport agricultural chemical products with **Transport** 

food, food related materials and animal feedstuffs. Information

3077 U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (mesulfuron-methyl, 60%) UN proper shipping

name

**Transport hazard** 

class(es)

Hazchem Code 2x **Packaging Method** III

**EPG Number** 47 **IERG Number** 

**IMO Marine** 

**Packing Group** 

Yes. Environmentally Hazardous Substance mark required.

**Pollutant** 

**IMDG EMS** F-A, S-F

Do not carry more than 3kg of ASSOCIATE 600 WDG on a passenger service Other Information

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.

### 15. Regulatory information

National and or International

Registered pursuant to the ACVM Act 1997, No. P5957 See www.foodsafety.govt.nz for registration conditions

Regulatory

Approved pursuant to the HSNO Act 1996, Approval Code HSR000242 See www.epa.govt.nz for approval controls.

Information

Packaging &

ECOTOXIC

Labelling **Hazard Rating** 

NFPA/HMIS: 2-1-1

**Systems** 

#### 16. Other Information

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

5 Yearly review carried out.

Highlighted

Other Information Supersedes SDS issued November 2016

...End Of MSDS...

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