



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **ADAPT 75 WDG**
Chemical Name of Active Ing: NICOSULFURON 75 WDG 2-[4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl amino)sulfonyl] -N,N-dimethyl-3-pyridinecarboxamide

Product Use: Herbicide
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, Nelson
Telephone: +64 3 543 8275
Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 31 July 2019

Section 2. Hazards Identification

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR100821

Pictograms



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Chronic 1
9.2A	H421	Very toxic to the soil environment.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P273	Avoid release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt %	CAS NUMBER.
Nicosulfuron	72.5 - 77.5	111991-09-4
Other non-hazardous ingredients	To bal	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. If eye irritation persists: Get medical advice.
If on Skin	Remove contaminated clothing and wash before reuse. Wash away remainder with water and soap followed by a warm water rinse. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	If swallowed, do NOT induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Not applicable.
Inhalation:	Not applicable.
Skin:	Not applicable.
Eye:	Not applicable.
Chronic:	Not applicable.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	Sulfur oxides, nitrogen oxides, (NO,NO ₂), carbon oxides (CO, CO ₂)
Suitable Extinguishing media	For small fire: dry chemical powder, water spray carbon dioxide For large fire: Foam, water fog, water spray
Precautions for firefighters and	Self-contained breathing apparatus and total protection required in enclosed areas.

special protective clothing	
HAZCHEM CODE	2Z

Section 6. Accidental Release Measures

Wear appropriate protective clothing. (see section 8). Evacuate all unnecessary personnel.

Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

Methods and material for containment and cleaning up

Collect and contain as much free liquid as possible. Absorb remainder in sand or other inert material. Sweep up solids without creating dust. Place into a clean container and cover the container loosely for later disposal.

Dispose as per Section 15.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Avoid release to the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from foodstuffs, fertilisers and seeds.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ventilation required.

Personal Protection Equipment



Eyes	Safety goggles or face shield.
Hands and Skin	Wear chemical resistant gloves, protective clothing and boots.
Respiratory	Dust mask.
General	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling.

When using do not eat, drink, or smoke. Wash clothing separately before re-use.

Section 9 Physical and Chemical Properties

Appearance	Beige Granules
Odour	Faint odour
Odour Threshold	Not applicable
pH	Not applicable
Boiling Point	Not applicable
Melting Point	Nicosulfuron: 169-174°C
Flash Point	Not applicable
Flammability	Not flammable
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	Nicosulfuron: <8 e-7@ 25 °C
Specific Gravity	(H ² O = 1) 1.13 - 1.14
Solubilities	Dispersible
Log P Octanol/water 20 oC	Nicosulfuron: 0.32 (pH 4)
Auto-ignition Temperature	Not applicable
Kinematic viscosity mm²/s 40 °C	Not applicable
Particle Characteristics	Not applicable
Volatiles	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	None known.
Conditions to Avoid	Protect from (sun) light, open flame sources of heat and humidity
Incompatible Materials	Oxidizing agents, acids, alkali
Hazardous Decomposition Products	Sulfur oxides, nitrogen oxides, (NO, NO ₂), carbon oxides (CO, CO ₂)

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Skin	Not applicable.
Eye	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Common name: Nicosulfuron

Acute toxicity - Oral:	LD50 > 2,000 mg/kg (rat)
Acute toxicity - Dermal:	LD50 > 5,000 mg/kg (rat)
Acute toxicity - Inhalation:	LD50 > 5.15 mg/l/4h (rat) Nicosulfuron
Skin irritation:	Non irritating (rabbit).
Eye irritation:	Minimal irritating (rabbit).
Sensitization:	Non sensitizer
Carcinogenicity:	Not classified (Nicosulfuron)
Mutagenicity:	Not mutagenic (Nicosulfuron)
Toxic for reproduction: Fertility:	Not considered to be toxic for the reproductive system (Nicosulfuron)
Toxic for reproduction:	Not teratogenic in animal experiments (Nicosulfuron)

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.
 9.2A = Very toxic to the soil environment.

Ecological effects information:

Common name: Nicosulfuron
 On product
 96 H-LC50 – Rainbow trout [mg/l]: >100
 48 H-EC50 – Daphnia magna [mg/l]: > 100 (Nicosulfuron)
 96 H-EC50- algae [mg/l]: NOEC; 100 (Nicosulfuron)
 LD50 Birds [mg/kg]: Japanese quail > 2,000
 Bees LD50 [µg]: Not toxic to bees
 Persistence – degradability: Soil: Half-life time (t½): 16 days
 Water: Half-life time (t½): (hydrolysis): 15 days (pH5)
 Bioaccumulative potential: Low bioaccumulation potential
 Other information: Very toxic to LEMNA

Persistence and degradability	No data available on product
Bioaccumulation	No data available on product
Mobility in Soil	No data available on product
Other adverse effects	No data available on product
Precautions	Do not allow to enter waterways.

Section 13. Disposal Considerations

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

Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012

**Road and Rail Transport**

UN No: 3077

Product Name: ADAPT 75 WDG
 Date of SDS: 31 July 2019

Prepared by: Technical Compliance Consultants (NZ) Ltd
 Tel: 64 9 475 5240 www.techcomp.co.nz

Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, (nicosulfuron)

Air Transport

UN No: 3077
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, (nicosulfuron)

Marine Transport

UN No: 3077
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, (nicosulfuron)
 Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR100821
 HSNO Classification: 9.1A, 9.2A

Refer to EPA website www.epa.govt.nz for controls document - HSR100821

HSW (HS) Regulations 2017	Trigger Quantity/Regulation
HSW(Hazardous substance) Regulations Part 4 Certified Handlers and supervision and training of workers	HSW Reg 4.5 – 4.6 Information, instruction, training and supervision.
Location Certificate	Not required
Signage Trigger Quantities	100kg (9.1A)
Fire Extinguishers	Not required
Emergency Response Plan	100kg (9.1A)
Secondary Containment	100kg (9.1A)
Tracking	Not required
HSNO Additional Controls (Restrictions of use)	
77A	The substance must not be applied onto or into water.
77A - A maximum application rate is set for this substance.	Adapt must only be applied to a treatment area once per year. Each application of Adapt must not exceed an application rate of 82.5 g ai/ha.
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace

HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	P8662

Section 16 Other Information

Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the Suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the ADAMA, if further information is required.

Issue Date: 31 July 2019

Review Date: 31 July 2024