



This revision issued: June, 2022

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Adapt Herbicide

Chemical Name of Active Ing: NICOSULFURON 2-[4,6-dimethoxy-2-

pyrimidinyl)amino]carbonaonyl]

amino]sulfonyl] -N,N-dimethyl-3-pyridinecarboxamide

Product Use: Herbicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Level 1/93 Bolt Road Tahunanui, Nelson

Telephone: +64 3 543 8275 Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 16 June 2022

Section 2. Hazards Identification

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

EPA Approval No: HSR100821

Pictograms



Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement
Hazardous to the aquatic	H400	Very toxic to aquatic life.
environment acute Category 1		
Hazardous to the aquatic	H411	Very toxic to aquatic life with long lasting
environment chronic Category 1		effects.
Hazardous to soil organisms	H421	Very toxic to the soil environment.

Prevention Code	Prevention Statement
P103	Read label before use.
P273	Avoid unintended release into the environment.

Response Code	Response Statement
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	

Product Name: Adapt Herbicide Issued by: Adama New Zealand Ltd

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 Swallowed If swallowed 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.

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, NO2), carbon oxides (CO, CO2)
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 special protective clothing	Self-contained breathing apparatus and total protection required in enclosed areas.
HAZCHEM CODE	2Z

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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 unintended release into the environment.
- Collect spillages.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- 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	
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m3 ppm mg/m3

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.
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.

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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	Not applicable
Exposure Limits	
Vapour Pressure	Nicosulfuron: <8 e-7@ 25 °C
Specific Gravity	$(H^20 = 1) 1.13 - 1.14$
Solubilities	Dispersible
Log P Octanol/water 20	Nicosulfuron: 0.32 (pH 4)
оС	
Auto-ignition	Not applicable
Temperature	
Kinematic viscosity	Not applicable
mm2/s 40 °C	
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	Sulfur oxides, nitrogen oxides, (NO, NO2), carbon oxides (CO,	
Products	CO2)	

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

Product Name: Adapt Herbicide Date of SDS: 16 Jun 2022 Issued by: Adama New Zealand Ltd Tel: 64 3 543 8275

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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 Classification: Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms.

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 tine (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

Section 13. Disposal Considerations

Disposal Method: 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 before puncturing and offering for recycling or landfill.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Product Name: Adapt Herbicide Issued by: Adama New Zealand Ltd

Section 14

Transport Information

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



Road and Rail Transport

UN No: 3077 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 (Hazard Classification) Notice 2020

HSNO Approval Code: HSR100821

HSNO Classification: Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms.

HSW (HS) Regulations 2017	Trigger Quantity/Regulation	
Part 4 Certified Handlers and	HSW Reg 4.5 - 4.6	
supervision and training of workers	Information, instruction, training and supervision.	
Location Certificate	Not required	
Signage Trigger Quantities	100kg	
Emergency Response Plan	100kg	
Secondary Containment	100kg	
Tracking	Not required	
HSNO Varied/Additional Controls		
Variation to Hazardous Property	Adapt must only be applied to a treatment area	
Controls Notice Part 4B	once per year. Each application of Adapt must not	
	exceed an application rate of 82.5 g ai/ha.	
Hazardous Property Controls Notice 2017		

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HPC Notice Part 1	Hazardous Property Controls preliminary provisions	
HPC Notice Part 3	Hazardous substances in a place other than a workplace	
HPC Notice Part 4 Subpart A	Substances that are hazardous to the environment: Site and storage controls	
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment	
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous substances must be appropriate	
HPC Notice Part 4 Clause 48	Records of application of ecotoxic pesticides and plant growth regulators	
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic environment must not be applied to water	
HPC Notice Part 4 Subpart C	Qualifications required for the application of substances that are hazardous to the environment	
ACVM Act and Regulations		
ACVM Approval No	P8662	
See <u>www.foodsafety.govt.nz</u> for		
registration controls		

Section 16 Other Information

Glossary

ACVM Agricultural Compounds and Veterinary Medicines Act 1997.

EC50 Median effective concentration. Environmental Exposure Limit. EEL **EPA** Environmental Protection Authority.

Hazardous Substances and New Organisms Act 1996. **HSNO**

Health and Safety at Work Act 2015. **HSW**

HSW (HS) Regulations Health and Safety at Work (Hazardous Substances) Regulations 2017. 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. TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

WES Workplace Exposure Limit.

References:

- EPA Hazardous Substances (Safety Data Sheets) Notice 2017 1.
- 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
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

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Tel: 64 3 543 8275 Date of SDS: 16 Jun 2022 www.adama.com