



SAFETY DATA SHEET

ADAPT[®] HERBICIDE

Section 1: Identification of the Substance and Supplier

Product name : ADAPT 75 WDG
Chemical name of active NICOSULFURON 75 WDG 2-[4,6-dimethoxy-2- pyrimidinyl)amino]carbonyl] amino)sulfonyl] -N,N-dimethyl-3-pyridinecarboxamide
Supplier: ADAMA New Zealand Limited
Level 1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O. Box 1799, Nelson New Zealand.
Telephone +64 3 543 8275 Fax: +64 3 543 8274
Emergency Telephone: 0800 POISON (0800 764 766) 24 Hour Service

Section 2: Hazards Identification

HAZARD CLASSIFICATIONS: 9.1A, 9.2A

TOXICITY

• Harmful - may cause eye irritation.

ECOTOXIC

• Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
• Selective herbicide - very toxic to some plant species. **Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.** Do not allow drift to occur outside the target area.

Section 3. Composition/Information on Ingredients

Substance/preparation Preparation
Information on hazardous ingredients *

Common name	CAS No.	%	EC Number
Nicosulfuron	111991-09-4	72.5-77.5%	-----

- **Occupational Exposure Limit(s), if available, are listed in section 8**

Section 4: First-Aid Measures

First-aid measures:

Inhalation: Remove victim to fresh air. Keep victim warm and at rest.
If breathing is difficult give oxygen.
If not breathing, apply artificial respiration. Get medical attention.

Ingestion: If swallowed do NOT induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person.
For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

Skin contact: Remove contaminated clothing. Wash away remainder with water and soap for at least 15 minutes.

Eye contact: Wash out with plenty of water with eyelid wide open for at least 15 minutes.
If pain persists, consult an eye specialist

Notes to a physician: There is no specific antidote. Treat symptomatically and give supportive therapy.

Section 5: Fire-Fighting Measures

Suitable Extinguishing media: For small fire: dry chemical powder, water spray carbon dioxide
For large fire: Foam, water fog, water spray

Protection against fire: Self-contained breathing apparatus and total protection required in enclosed areas.
Hazardous thermal Sulfur oxides, nitrogen oxides, (NO,NO₂), carbon oxides (CO, CO₂)

(de)composition products:



SAFETY DATA SHEET ADAPT[®] HERBICIDE

Section 6: Accidental Release Measures

Personal precautions:	Wear suitable protective clothing, glove and eye/face protection.
Environmental precautions:	Do not empty into drains. Do not discharge into the environment.
Methods for cleaning up:	Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material. Sweep up solids without creating dust. Dispose of waste safely in a suitable landfill.

Section 7: Handling and Storage

Handling:	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:	Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place, out of direct sunlight in accordance with NZS8409 Management of Agrichemicals. Keep container dry. Stores containing 100 kg of ADAPT [®] require signage and more than 100 kg require emergency response plans.

Section 8: Exposure Controls/Personal Protection

Common name:	Nicosulfuron
TLV[©]:	Ventilation required
Engineering measures:	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Hygiene measures:	Wash hands thoroughly after handling. When using do not eat, drink, or smoke. Wash clothing separately before re-use.
Personal protective equipment:	
Respiratory system:	Dust mask
Skin and body:	Wear suitable protective clothing - chemical resistant boots & gloves.
Hands:	Wear suitable gloves.
Eyes:	Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state:	Granules
Colour:	Beige
Odour:	Faint odour
Melting Point:	Nicosulfuron: 169-174°C
Vapour pressure:	Nicosulfuron: <8 e-7 @ 25°C
Solubility in water:	Dispersible
Log P Octanol/water 20°C	Nicosulfuron: 0.32 (pH 4)
Explosion properties:	Not explosive
Oxidizing properties:	Not oxidizing

Section 10: Stability and Reactivity

Stability:	Stable under normal dry conditions
Hazardous decomposition products:	Sulfur oxides, nitrogen oxides, (NO, NO ₂), carbon oxides (CO, CO ₂)
Conditions to avoid:	Protect from (sun) light, open flame sources of heat and humidity
Materials to avoid:	Oxidizing agents, acids, alkali



SAFETY DATA SHEET ADAPT[®] HERBICIDE

Section 11. Toxicological Information

Common name:	Nicosulfuron
Acute toxicity - Oral:	LD ₅₀ > 2,000 mg/kg (rat)
Acute toxicity - Dermal:	LD ₅₀ > 5,000 mg/kg (rat)
Acute toxicity – Inhalation:	LD ₅₀ > 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: Ecological 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 (t _{1/2}): 16 days Water: Half-life time (t _{1/2}): (hydrolysis): 15 days (pH5)
Bioaccumulative potential:	Low bioaccumulation potential
Other information:	Very toxic to LEMNA

Section 13: Disposal Considerations

Methods of disposal:	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.
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Section 14: Transport Information

UN Number	3077
Proper shipping name	Environmentally hazardous substance, Solid, N.O.S., (nicosulfuron)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	Yes
IER Guide page	47
National transport regulations:	Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.



SAFETY DATA SHEET ADAPT[®] HERBICIDE

Section 15: Regulatory Information

NZFSA Approval:

Registered pursuant to the ACVM Act 1997. No P8662
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR100821
See www.ermanz.govt.nz for registration conditions

HSNO Classifications:

9.1A, 9.2A



ECOTOXIC

APPROVED HANDLER: This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kg of ADAPT is applied within 24 hours.

This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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