



SAFETY DATA SHEET PREDICT[®] FUNGICIDE

Section 1: Identification of the Substance and Supplier

Product name: PREDICT FUNGICIDE
Chemical name of active ingredient(s): Pyrimethanil is an anilinopyrimidine derivative
Supplier: ADAMA New Zealand Limited
Level1/19 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)

Section 2: Hazards Identification

Classification 9.1B



ECOTOXIC

APPROVED HANDLER: This product must be under the control of an approved handler during use.

TRACKING: This product must be tracked – see current version of NZS8409 Management of Agrichemicals.

RECORD KEEPING: Records of use must be kept as described in NZS8409 Management of Agrichemicals.

ECOTOXICITY

Toxic to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container.

Section 3. Composition/Information on Ingredients

Substance/preparation Preparation
Information on hazardous ingredients *

Common name	CAS No.	Value
Pyrimethanil	53112-28-0	600g/l
Polyarylphenyl ether sulphate, ammonium salt	1194732-41-6	<100g/L
Other non-hazardous ingredients	secret	to 100

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

Section 4: First-Aid Measures

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove victim to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Ingestion: If product is swallowed or gets in mouth, **do NOT induce vomiting.** Wash out mouth with plenty of water and give some water to drink. If symptoms develop, or if in doubt contact the Poisons Information Centre or a doctor.

Skin contact: Remove contaminated clothing. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye contact: No effects expected. If irritation does occur, flush contaminated eye (s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or last more than a few minutes. Take special care if exposed person is wearing contact lenses.

Notes to a physician: No specific antidote known. Treat symptomatically and give supportive therapy.



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Section 5: Fire-Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both) fire gases. There is little risk of any explosion from this product if commercial quantities are involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

Extinguishing media: Not combustible. Use extinguishing media suited to burning materials. Alcohol resistant foam is the preferred firefighting medium, but if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash Point:	Does not burn
Upper Flammability limit:	Does not burn
Lower Flammability Limit:	Does not burn
Autoignition temperature:	Not applicable – does not burn
Flammability class:	Does not burn

Section 6: Accidental Release Measures

Accident release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or entering drains and waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways and drains. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material.

Container Disposal: Ensure container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush or puncture and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Product disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

Section 7: Handling and Storage

HANDLING PRECAUTIONS: Keep out of reach of children. Do not eat, drink or smoke while using.

Equipment: Apply using accurately calibrated and maintained ground based equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

Storage: Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage of PREDICT FUNGICIDE must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

Section 8: Exposure Controls/Personal Protection

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation:	This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Respiratory system:	During spraying wear suitable respiratory equipment.
Skin and body:	Wear suitable protective clothing, impervious elbow-length gloves, and chemical resistant boots.
Hands:	Rubber, PVC gloves
Eyes:	Safety goggles or Chemical goggles.



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Section 9: Physical and Chemical Properties

Physical state:	Liquid
Colour:	Beige
Odour:	Mild odour
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Below 0°C
Volatiles:	Water component
Vapour Pressure:	2.37kPa at 20°C (water vapour pressure)
Vapour Density:	As for water
Specific gravity:	1.06-1.12
Solubility in water:	Completely soluble in water
pH value:	6.0-8.0 (neutral)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	As for water
Coeff Oil/water distribution:	No data
Autoignition temp:	Not applicable – does not burn.

Section 10: Stability and Reactivity

Re-activity: This product is unlikely to react or decompose under normal storage conditions. However, if you have doubts, contact ADAMA NZ for advice on shelf life properties.

Conditions to avoid: Protect this product from light. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: Strong acids, strong bases, strong oxidizing agents.

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally, hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headaches, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death. Polymerisation: this product will not undergo polymerisation reactions.

Section 11: Toxicological Information

Target organs:	There is no data to hand indicating any particular target organs.
Sensitization:	Non Sensitizer
Mutagenicity:	Not mutagenic
Teratogenicity:	Not teratogenic in animal experiments

Pyrimethanil:	LD ₅₀ Oral, Rat = >5000mg/kg LD ₅₀ Dermal, Rat = >4000mg/kg
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Section 12: Ecological Information

This product is toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Birds: LD ₅₀ birds: >5000mg/kg	Fish: LC ₅₀ Rainbow trout (<i>Oncorhynchus mykiss</i>): 10.6mg/L
Bees: LD ₅₀ >100µg/bee	Daphnia: EC ₅₀ 2.9mg/L

Persistence and degradability: Low bioaccumulation potential, rapidly degradable

Mobility: Low risk of underground water contamination.



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Section 13: Disposal Considerations

- Container Disposal:** Ensure container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush or puncture and bury in a suitable landfill. DO NOT reuse this container for any other purpose.
- Product disposal:** Dispose of this product only by using according to the label, or at an approved landfill or other approved facility. Containers and bury in a suitable landfill, away from watercourses or if appropriate, recycle. Do not contaminate ponds, waterways and ditches with product or used container.



Section 14: Transport Information

UN Number	3082
Proper shipping name	environmentally hazardous substance, Liquid, N.O.S., (600g/l Pyrimethanil)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	Yes
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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.

Section 15: Regulatory Information

New Zealand Regulatory Information:

Registered pursuant to the ACVM Act 1997, No. P8812
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR100877
See www.epa.govt.nz for approval controls

Hazard Classification: 9.1B



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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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