

Title	Identify and interpret agrichemical product information, and describe safety procedures when working with agrichemicals		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to: identify and interpret information for an agrichemical product; describe the routes of entry of agrichemicals into the body when being used, types of agrichemical poisoning, and the role of personal protective equipment; describe basic safety procedures when working with agrichemicals; and describe the symptoms of agrichemical poisoning, and first aid measures sourced from agrichemical product information.
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Available grade	Achieved
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Classification	Primary Sector > Plant Pest, Weed, and Disease Control
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Hazardous Substances and New Organisms Act 1996;
 - Health and Safety at Work Act 2015.
- 2 Regulations and standards relevant to this unit standard include but are not limited to:
 - Local regional and territorial authority regulatory requirements;
 - NZS 8409:2021 Management of Agrichemicals.
- 3 The New Zealand Standard applicable to this unit standard is NZS 8409:2021 *Management of Agrichemicals*, or subsequent replacement, available from www.standards.co.nz.
- 4 References

Responsible Care™ Management System, available from the New Zealand Chemical Industry Council available from www.responsiblecarenz.com.

New Zealand Novachem Agrichemical Manual, available from www.novachem.co.nz.
- 5 Definitions

Agrichemical refers to any substance, whether inorganic or organic, man-made or naturally occurring, modified or in its original state, that is used to eradicate, modify or control flora and fauna. It is a subset of agricultural compounds and includes pesticides, spray additives, and foliar fertilisers.

Symptoms of agrichemical poisoning refer to functional change in the body that is described by the victim.

6 Range

Specified primary sector may be any one of agriculture, equine, forestry, horticulture, amenity, sports turf.

Outcomes and performance criteria**Outcome 1**

Identify and interpret information for an agrichemical product.

Range information may include but is not limited to – hazard classification, storage, handling, safety precautions, withholding periods, use, priority identifiers, secondary identifiers, emergency response, disposal of unused product and containers.

Performance criteria

1.1 Identify and interpret agrichemical product information on product labels in terms of agrichemical use.

Range evidence of three information items is required.

1.2 Identify and interpret agrichemical product information from safety data sheets, product safety cards or the *New Zealand Novachem Agrichemical Manual* in terms of agrichemical use.

Range evidence of three information items is required.

Outcome 2

Describe the routes of entry of agrichemicals into the body when being used, types of agrichemical poisoning, and the role of personal protective equipment.

Performance criteria

2.1 Describe agrichemicals in terms of their routes of entry into the body when being used.

Range inhalation, dermal (including eyes), oral, injection; evidence of three routes of entry is required.

2.2 Describe agrichemical poisoning in terms of ways in which it can occur when agrichemicals are being used.

Range acute, chronic.

2.3 Describe the use, storage, and maintenance of personal protective equipment (PPE) in terms of their role in preventing agrichemical poisoning.

Range PPE may include but is not limited to – gloves, eye protection, overalls, spray suit, respirator, apron, boots, tractor cab filters; evidence of a respirator and two other PPE items is required.

Outcome 3

Describe basic safety procedures when working with agrichemicals.

Performance criteria

3.1 Describe basic safety procedures to minimise health risks when performing activities with agrichemicals in terms of NZS 8409:2021.

Range activities include but are not limited to – measuring and mixing, applying; disposal of – washings, residues, surplus spray mixture(s).

Outcome 4

Describe the symptoms of agrichemical poisoning, and first aid measures sourced from agrichemical product information.

Performance criteria

4.1 Describe agrichemical poisoning in terms of mild and severe symptoms.

Range evidence of two mild and two severe symptoms is required.

4.2 Describe agrichemical poisoning in terms of first aid measures sourced from agrichemical product information.

Range information may include but is not limited to – safety data sheets, label, product safety card; evidence of one agrichemical product is required.

Replacement information	This unit standard replaced unit standard 21554 and unit standard 21562.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 August 2011	31 December 2024
Review	2	26 May 2022	N/A

Consent and Moderation Requirements (CMR) reference

0232

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Muka Tangata – People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.